

F10241 - A&C - On-Maintenance Inspection Guideline

Accreditation and Certification

Instructions:

- The Major Connections Certifier is responsible of conducting the on-maintenance Inspection, (this form can be used as a guideline).
- The Major Connections Certifier must be in receipt of all relevant documentations as per the Unitywater Accreditation and Certification Manual;
- The meeting must be attended by the following, in addition to the Major Connections Certifier:
 - a. Construction Certifier;
 - b. Contractor's Supervisor; and or
 - c. Sub-Contractor if not the Principal Contractor.
- Before proceeding to the inspection of water meters, the Registered Major Connections Certifier must be in receipt of a completed Unitywater Water Meter Register and Property Conditions document. The Registered Major Connections Certifier must confirm each meter is correctly recorded against the lot it is installed to service.

Unit	ywatei	Connectio	n Approval Ref No:			SP Plan:
Deve	elopme	ent Estate N	Name / Street Name:			e: Total Number of Lots:
Con	structio	on Certifier			81	
On N	Mainte	nance Insp	ection Date:			
			Table 1 - On	Maintenance Inspect	ion Attendance Reco	rd
		Stakeho	older Title	Name	Phone	Signature
Ма	jor C	onnectio	ons Certifier			
Co	nstru	ction Ce	rtifier			
Co	ntrac	tor's Su	pervisor			
Sul	b-Coı	ntractor	(if relevant)			
Uni	itywa	ter Offic	er (if attending)			
Insp	ectio	n Guid	eline:			
С	omplia	ınt	Та	ble 2 – On-Maintenan	ce Inspection Preregi	uisite
Yes	No	N/A				
			Check Survey Pegs have bee	n installed (survey pegs and no	t stake markers).	
			Check water mains have bee	en pressurised to enable water	meters to be checked.	
			Copy of As-Constructed.			
			Copy of completed Water M	leter Register and Property Con	nditions.	
						Compliant: Yes No No
C Yes	omplia No	nt N/A		Table 3 – Water I	Reticulation Valves	
_			Poviow as constructed again	et physical assets inspected and	d rolovant itoms holow for disc	repancy (with Code or Approved plan/variation).
			Water main alignment.	ist physical assets hispected and	a relevant items below for disc	epancy (with code of Approved plan, variation).
			G	re tight and that valve spindles	are fixed to valves	
				the correct height (75mm to 22		4)
			Valve spindle is centrally loc	- '	.Sillili below top of valve box in	1
Ш	ш				o nut or holt (Only detectable	tape shall be used. Tape should be laid on top
			of the pipe embedment to for its conducting wires. Bare we the valve or hydrant). Where	orm a continuous connection be ires are to be connected to a nu	etween valves and/or hydrants ut or bolt of a valve or hydrant ape is to be visible and accessib	is. Ends of the tape are to be stripped to expose to form an electrical connection of the wire to ele such that detection can be made with a metal
			Valve body has been wrappe	ed in manufacturer approved po	olythene blue sleeving (visible i	n valve box).
			Shroud is diameter 225mm	and extended to the top of surr	ound cover (inside valve box).	
			Valve and valve box to be vo	oid of mud and dirt (to bottom o	of shroud).	
			Confirm valve box lids are tr	afficable (pavement or constru	cted driveway) or non-trafficab	le as required (SEQ Code).
			Confirm valve box lid is the o	· · ·	oliant with SEQ code - sprayed r	not brushed, 2 coats of paint and glass bead -

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	omplia		Table 3 – Water Reticulation Valves - Continued
Yes	No	N/A	
			Valve box is level with the FSL (no trip hazard).
Ш	Ш		Valve boxes are aligned long side of rectangle are parallel with the water main direction.
			Valve brass kerb marker (V) are flush in face of kerb with white painted marker installed (All paint is compliant with SEQ code - sprayed not brushed, 2 coats of paint and glass bead - 250mm wide, top of kerb to bottom of kerb); OR marker post if no kerb.
			White "V" pavement marker installed (All paint is compliant with SEQ code - sprayed not brushed, 2 coats of paint and glass bead - 50mm offset from centre line and correct height).
			Pavement "V" Marker, kerb marker and brass marker (or marker post where applicable) are all in line with valve box lid.
			Compliant: Yes No
Compliant			Table 4 – Hydrants
Yes	No	N/A	
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation).
			Hydrant locations match approved design/variation or SEQ Code.
			Confirm correct water main alignment via hydrant location offset from boundary.
			Hydrant brass kerb marker (H) are flush in face of kerb with yellow (Golden yellow - AS2700 Y14) painted marker installed (All paint is compliant with SEQ code - sprayed not brushed, 2 coats of paint and glass bead - 250mm wide, top of kerb to bottom of kerb).
			Blue RRPM has been installed (100mm offset from centre of the road) and in line with the hydrant and brass kerb marker.
			Thermoplastic reflective directional arrow installed (Golden yellow - As2700 Y14).
			Blue RRPM, reflective directional arrow, kerb marker and brass marker (or marker post where applicable) are all in line with hydrant box lid.
			Hydrant and hydrant box are generally void of mud and dirt (cleaned out as part of presentation for inspection is expected).
			Hydrant risers are DN 100 (via flange inside hydrant box).
			Detectable marking tape where evident to inspect on a hydrant nut or bolt. (Only detectable tape shall be used. Tape should be laid on top of the pipe embedment to form a continuous connection between valves and/or hydrants. Ends of the tape are to be stripped to expose its conducting wires. Bare wires are to be connected to a nut or bolt of a valve or hydrant to form an electrical connection of the wire to the valve or hydrant). Where this cannot be achieved the tape is to be visible and accessible such that detection can be made with a metal detector, when the locators attach a charge to the tracer wire.
			Hydrant tee and riser body wrapped in manufacturer approved polythene blue sleeving (visible in hydrant box).
			Hydrant Shroud is diameter 225mm and extended to the top of surround cover (inside hydrant box).
			Top of hydrant lugs/claws are correct height (75mm to 225mm max below top of hydrant box lid).
			Hydrant is centrally located in hydrant box.
			Hydrant lugs/claws are aligned parallel with the main direction.
			Temporary hydrant is installed with lugs/claws and hydrant box long side of rectangle at 90deg to the water main direction and are not identified with Blue reflector road marker, kerb marker and brass marker (or marker post where applicable).
			Confirm hydrant box lids are trafficable (pavement or constructed driveway) or non-trafficable as required (SEQ Code).
			Confirm the hydrant box lid is the correct colour (Golden Yellow (AS2700 Y14) - All paint is compliant with SEQ code - sprayed not brushed, 2 coats of paint and glass bead).
			Hydrant box is level with the FSL (No trip hazard).
			Hydrant boxes are aligned long side of rectangle are parallel with the water main direction.
			Hydrant box surround installed where hydrant is located in concrete pathway/constructed driveway or road pavement.
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation).
			Compliant: Yes No No
Yes	omplia No	nnt N/A	Table 5 – Water Service Conduits and Water Main Road Crossing
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation).
			Brass (only) "W" conduit markers indicating position of the water service pipe crossing road pavement and are flush in centre face of kerb (within +-50mm from actual water service conduit horizontal position).
			Brass (only) "WM" markers indicating location of all water main crossing of road pavements and constructed concrete driveways and are flush in centre face of kerb (within +-50mm from actual water main crossing of road pavement location).
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation).
			Compliant: Yes \(\sqrt{\text{No.}} \sqrt{\text{No.}} \sqrt{\text{No.}} \sqrt{\text{No.}}



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С	omplia	nt	Table 6 – Water Reticulation - Flush Points	
Yes	No	N/A	Table 6 Water Reticulation - Hash Folints	
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation	1).
			Flush Point Box installed (SEQ Code compliant) and is level with the FSL (No trip hazard).	
			Stainless steel ball valve and stainless steel 'storz' fitting installed.	
			Where Flush Point is located in verge area or garden bed, concrete surround to be provided. Otherwise, Flush Point is to be contained within a concrete footpath/driveway.	
			Dust cap installed.	
			Detectable marking tape where evident to inspect on a flush point valve. (Only detectable tape shall be used. Tape should be laid on top of the pipe embedment to form a continuous connection between valves and/or hydrants. Ends of the tape are to be stripped to expose its conducting wires. Bare wires are to be connected to a nut or bolt of a valve or hydrant to form an electrical connection of the wire to the valve or hydrant). Where this cannot be achieved the tape is to be visible and accessible such that detection can be made with a metadetector, when the locators attach a charge to the tracer wire.	
			Confirm flush point box lid is painted correct colour - White (All paint is compliant with SEQ code - sprayed not brushed, 2 coats of paint and glass bead Flush Point lid has been sprayed in White). Paint is to be SEQ code compliant paint with Glass Bead.	
			Flush Point Brass (only) Kerb Marker (F) is flush in face of kerb with white painted marker installed (All paint is compliant with SEQ code sprayed not brushed, 2 coats of paint and glass bead - 250mm wide, top of kerb to bottom of kerb); OR mark	
			Thermoplastic reflective directional arrow installed (White).	
			White "F" pavement marker installed (All paint is compliant with SEQ code - sprayed not brushed, 2 coats of paint and glass bead - 100m offset from centre line and correct height).	m
			Pavement "F" Marker, kerb marker and brass marker (or marker post where applicable) are all in line with flush point box lid.	
			Compliant: Yes No	
1				
C Yes	<mark>omplia</mark> No	nt N/A	Table 7 – Water Meters	
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation	ı).
			Water meter poly pipe tail extends 600mm minimum outside water meter box (into the lot).	,
			Confirm water meter tail pipes are PE100 PN16 Black Pipe with blue stripe.	
			Confirm water service is not turned off at the main (pressurised water main and release of sufficient water through the water meter tail). (Can be confirmed prior to inspection with individual photos verified by Construction Certifier that each ball valve is turned on)).
			Confirm water meter and water meter box manufacturer complies with SEQ code (IPAM list approved).	
			Factory Preassembled water meter and water meter box manufacturer complies with SEQ Code (IPAM list approved) and is not modified	l.
			Confirm water meter box lid is correct colour (Black or Green) (Blue not permitted), has non-slip pattern and "water meter" lettering cast into it.	t
			Water meter box and lid is not altered, damaged (cracked, crushed or pushed in) or modified. (meter box sidewall deformation shall not result in less than 195mm width across the box at the level of the water meter).	
			Water meter box lid is attached via a chain/wire.	
			Water meter box is installed in correct location and configuration (In accordance with design/variation and SEQ Code - 300mm from side of boundary to centre of box, and 500 offset from frontage boundary to ball valve). Allowable lateral tolerance + - 100mm.	:
			Water meter box located in constructed driveways or trafficable area is installed with approved trafficable lid.	
			Confirm water meter box correctly surrounded by turf (extended to 600mm on all sides of water meter box) or if located in a garden bed no turf is required, and the lid must be visible and accessible upon inspection.	l,
			Confirm water meter box is flush with surrounding turf and the water meter box and surrounding turf is level with surrounding area (no significant localised low or high points at the meter box location).	
			Detectable marking tape installed and visible inside meter box. (Only detectable tape shall be used. Tape should be laid on top of the pipembedment from the main to the meter).	е
			Confirm all connectors to water service pipes are approved fittings (brass or plastic - with manufacturer name and watermark to confirm compliance).	I
			Confirm Unitywater approved meter number is stamped on meter and meter register record is correct (meter number/Lot/reading/location etc).	
			Water Meter Ball valve is lockable, unobstructed within water meter box and manufacturer complies with SEQ code (IPAM list approved)).
		П	Confirm geotextile fabric is installed around and underneath meter box and taped each side and around the service pipe (preventing ingress of sand, dirt and mud to water meter box) if the meter box is an open bottom style box. If the bottom is clipped in and enclosed	

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system, geofabric only required to prevent dirt coming through conduit penetrations.

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			Water meter and inside of water meter box is generally clean and void of all sand, soil, mud and water, (cleaned out as part of presentation for inspection is expected).
			Water meter is installed facing straight up and not strapped/tied to water meter box.
			Water meter and all components within water meter box are sitting high, level and centred within the box (minimum 20mm air gap between underside of the water meter and bottom of water meter box).
			Compliant: Yes No
Yes	omplia No	nt N/A	Table 8 – Sewerage - Maintenance Structures - MH (Cast Insitu & Pre-Cast)
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation).
			MH location is as per approved design/variation.
			Maintenance hole bench, channel and walls are generally clean and void silt, mud and water, (cleaned out as part of presentation for inspection is expected).
			Inside finish of joints are not to be cement bagged over or mega-epoxy covered (Pre-cast or Cast Insitu MHs).
			No Ladders or step irons are installed.
			No leaks/water ingress at joints (including at converter slab join).
			For internal backdrops deeper than 1.5 - 2 x S.S. Brackets must be installed with maximum 1.5m spacing.(For clarity - drops less than 1.5m require 2 brackets at appropriate spacing).
			MH neck depth does not exceed 500mm maximum (no relaxation).
			Backdrop penetration is not within 150mm of joints in MH wall.
			Backdrop discharge is pointed downstream.
			Backdrop tee has been installed in accordance with SEQ Code (to allow rodding of main).
			Finished level of cover and surround to be flush with FSL (No trip hazard) where located in roadway or 20mm above FSL where located in private property or footpath.
			Channel Depth is SEQ Code compliant.
			Channel Shape is SEQ Code compliant.
			Channel is not holding water (no ponding).
			Benching is Sloped at 1:8.
			Smooth transitions exist between pipe and benched channel.
			MH access opening is installed directly over downstream pipe outlet
			PE lined MHs at required location and PE lining is correctly installed (mechanically anchored to wall - no lumps etc, lining in MH neck is welded to converter slab liner. Lining at MH access frame is installed correctly under cover and frame and welded to MH neck liner, collar welded into wall at backdrop - no mega epoxy to be used on lined MH.
			Ensure cover frame opening aligns with converter slab opening.
			Compliant: Yes No
	omplia		Table 9 – Sewerage - Maintenance Structures - MS
Yes	No	N/A	
			Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation).
			MS location is as per approved design/variation.
			Maintenance Shaft to be clean and clean of silt, mud, water. MS manufacturer is approved (SEC code IDAM List)
			MS Picor is 200mm diameter (235mm diameter not assentable)
			MS Riser is 300mm diameter (225mm diameter not acceptable). MS shroud size is 375mm.
			Check for 5/7mm washed screens around MS riser.
			MS riser is installed vertical.
			MS maximum depth does not exceed 3.0m.
			Pressure relief rubber bung installed within MS PVC Lid.
			Inlets into riser are as per design/variation and SEQ Code.
			Finished level of riser cap is 100mm minimum to 250mm maximum below bottom of Cast Iron Lid.
			Finished level of MS cast iron lid to be Flush with FSL (No trip hazard) where located in roadway or 20mm above FSL where located in private property or footpath.

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			Lock down quick release end caps are SWJ fixed to riser and are rubber ring sealed between the cap and its frame (Screw down caps not allowed on MS Risers - Except terminal ends).
			PVC cap opens with less than 15-degree turn.
			PVC Cap is installed in the locked position.
			Cover and surround manufacturer is approved (SEQ code IPAM List)
			Surround installed as per SEQ code and manufacturers requirements.
			Detectable marking tape where evident to inspect on a MS (visible within MS shroud). (Only detectable tape shall be used. Tape should be laid on top of the pipe embedment to form a continuous connection between access cover frames. Ends of the tape are to be stripped to expose its conducting wires. Bare wires are to be connected to a nut or bolt of the access cover frame to form an electrical connection) Where this cannot be achieved the tape is to be visible and accessible such that detection can be made with a metal detector, when the locators attach a charge to the tracer wire.
П	П	П	Trafficable (Class D) and non-trafficable (Class B) cast iron covers installed in corresponding trafficable or non-trafficable locations.
_		_	, , ,
	_	_	Compliant: Yes No
Co Yes	omplia No	nt N/A	
	-		Compliant: Yes No
	-		Table 10 - Sewer House Connections
	-		Table 10 - Sewer House Connections Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation). Unitywater sewer property connection is marked with a 2.0-meter-long, single length, 40mm diameter orange PVC conduit at the sewer
	-		Table 10 - Sewer House Connections Review as constructed against physical assets inspected and relevant items below for discrepancy (with Code or Approved plan/variation). Unitywater sewer property connection is marked with a 2.0-meter-long, single length, 40mm diameter orange PVC conduit at the sewer property connection upstream IL (check for dummy/broken markers).

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